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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,382	07/14/2005	Shinichi Toyosawa	Q89140 3459	
23373 SUGHRUE MI	7590 07/30/200 ON, PLLC	EXAMINER		
2100 PENNSY	LVÁNIA AVENUE, N	DAVIS, PATRICIA A		
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			07/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/542,38	2	TOYOSAWA ET AL.				
		Examiner		Art Unit				
		PATRICIA	DAVIS	1795				
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the c	correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on 02	2000 June 2000						
-	Responsive to communication(s) filed on <u>02 June 2009</u> . This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥/ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>5-10</u> is/are withdrawn from consideration.							
	—————————————————————————————————————							
· —	6)⊠ Claim(s) <u>——</u> is/are allowed. 6)⊠ Claim(s) <u>1-4 and 11</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction and	t/or election re	equirement					
		aron cicolion i	squirement.					
Applicati	on Papers							
9)☐ The specification is objected to by the Examiner.								
10)	The drawing(s) filed on is/are: a)∏ a	ccepted or b)	objected to by the I	Examiner.				
	Applicant may not request that any objection to the	he drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

1. The Applicant's amendment filed June 2, 2009 was received. Claims 5-10 were cancelled. Claim 1 was amended. Claim 11 was added.

Claim Rejections - 35 USC § 102

2. The claim rejections under 35 U.S.C. 102(b) as anticipated by Hashizume et al. on claims 1-4 are withdrawn, because independent claim 1 has been amended.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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4. Claims 1-4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashizume et al. (U.S. Pat. No. 5,766,445) (hereinafter "Hashizume") in view of Morita et al. (U.S. Pat. No. 5,741,887) (hereinafter "Morita").

Regarding claims 1-3, Hashizume teaches a method of producing a carbonaceous material (co1.1, lines 57-64) which comprises oxidative-polymerizing or electrochemically polymerizing (col. 1, lines 57-64) a compound having an aromatic 20 ring, such as pyrrole (col. 2, line 36) and firing or heat-treating (col. 2, lines 61-65) the polymer in a non-oxidizing inert or vacuum atmosphere (col. 2, lines 61-64).

Hashizume does not explicitly state that the disclosed method results in the formation of a fibril-shaped polymer material or that the oxidative-polymerizing compound, such as aniline, having an aromatic ring is formed in the presence of an acid.

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However, Morita teaches that polyaniline is formed with an aromatic ring by an ordinary method of chemical synthesis whereby aniline is dissolved in an aqueous acid solution and an oxidizing agent is added for effecting polymerization (see col. 2, lines 43-61). Both aniline and pyrrole are aromatic nitrogen containing compounds well known in the art to be useful in polymer production. The selection of a known material, which is based upon its suitability for the intended use, is within the ambit of one of ordinary skill in the art. See *In re Leshin*, 125 USPQ 416 (CCPA 1960) (see MPEP § 2144.07). Therefore, it is obvious to use aniline as the starting material to make carbon fibers because as stated in Hashizume the carbonaceous material is formed through the conversion of nitrogen atoms and aniline is an aromatic nitrogen-containing compound (see col. 2, lines 24-37 of Hashizume).

Since as discussed above, Hashizume and Morita teach essentially the same method steps that are acting on the same starting material, it is inherently anticipated that the same product would result. Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established (emphasis added). In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990) (see MPEP § 2112.01).

Therefore, it would be obvious to one with ordinary skill in the art to use aniline as the oxidative polymerization of a compound having an aromatic ring in the presence of an acid forms a fibril-shaped polymer.

Regarding claim 4, Hashizume teaches that the oxidative-polymerization is an electrolytic oxidative-polymerization or electrochemically polymerization (col. 1, lines 57-64).

Regarding claim 11, Hashizume does not specifically teach that the acid that is used to produce the carbon fibers.

However, Morita teaches that the acid used to form the polyaniline can be a sulfuric acid or a hydrochloric acid (see col. 2, lines 43-49).

Therefore, it would be obvious to one with ordinary skill in the art to incorporate sulfuric acid or a hydrochloric acid to produce the carbon fibers.

Response to Arguments

5. Applicant's arguments with respect to claims 1-4 and 11 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PATRICIA DAVIS whose telephone number is (571)270-7868. The examiner can normally be reached on 7:30am-5pm EST. Monday-Friday, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sines can be reached on 571-272-1263. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PATRICIA DAVIS/ Examiner, Art Unit 1795

/Brian J. Sines/ Supervisory Patent Examiner, Art Unit 1795